

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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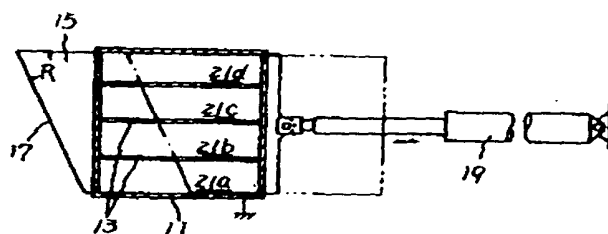
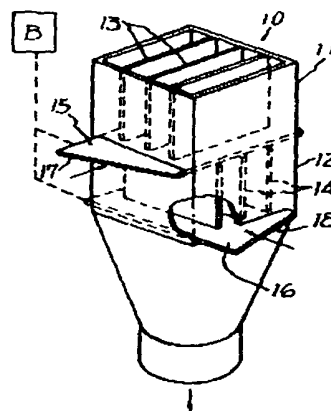
APPLICATION DATE : 10-05-79  
APPLICATION NUMBER : 54057504

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INVENTOR : OSAWA TOMIO;

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TITLE : MIXER FOR GRANULAR SUBSTANCE



ABSTRACT : PURPOSE: To form a mixer to mix granular substances without causing damage to them having different qualities and dispersed grain sizes by stacking up in a two- staged form a specific shape of tanks divided into plural sections the bottom of which is provided with movable gates respectively.

CONSTITUTION: The bottom of the first tank 11 divided slenderly by the plural vertical partition plates 13 arranged in parallel with each other is the gate 15 whose bottom 17 is inclined at  $R \approx 80-45^\circ$  in a movable manner in the direction of the partition plates 13. Below the first tank 11, the second tank 12 with the partition plates 14 similar to the said partition plates 13 but inclined rotated through  $90^\circ$  at the direction of the partition plates and the gates and also the gate 16 with the terminal portion 18 are provided. Furthermore, a sequence controller to open the gates 15 and 16 orderly is provided to form a mixer for granular substances. In said mixer, the gates 15 and 16 are closed, granular substances are charged into the first tank 11, the gate is opened, the whole amount of the granular substances is dropped into the second tank 12, and then the gate is opened to drop the granular substances in the second tank 12 for mixing the granular substances effectively.

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